

## M 7.1, 33km NW of Bulolo, Papua New Guinea

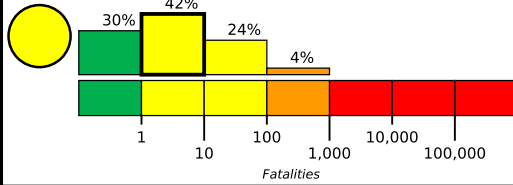
Origin Time: 2019-05-06 21:19:37 UTC (Tue 07:19:37 local)

Location: 6.9738° S 146.4504° E Depth: 146.0 km

FOR TSUNAMI INFORMATION, SEE: [tsunami.gov](https://tsunami.gov)

Created: 2 weeks, 6 days after earthquake

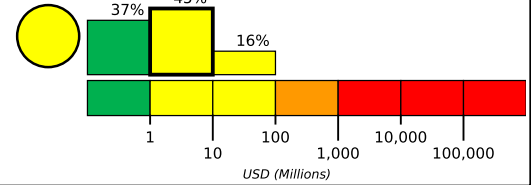
### Estimated Fatalities



Yellow alert for shaking-related fatalities and economic losses. Some casualties and damage are possible and the impact should be relatively localized. Past yellow alerts have required a local or regional level response.

Estimated economic losses are less than 1% of GDP of Papua New Guinea.

### Estimated Economic Losses

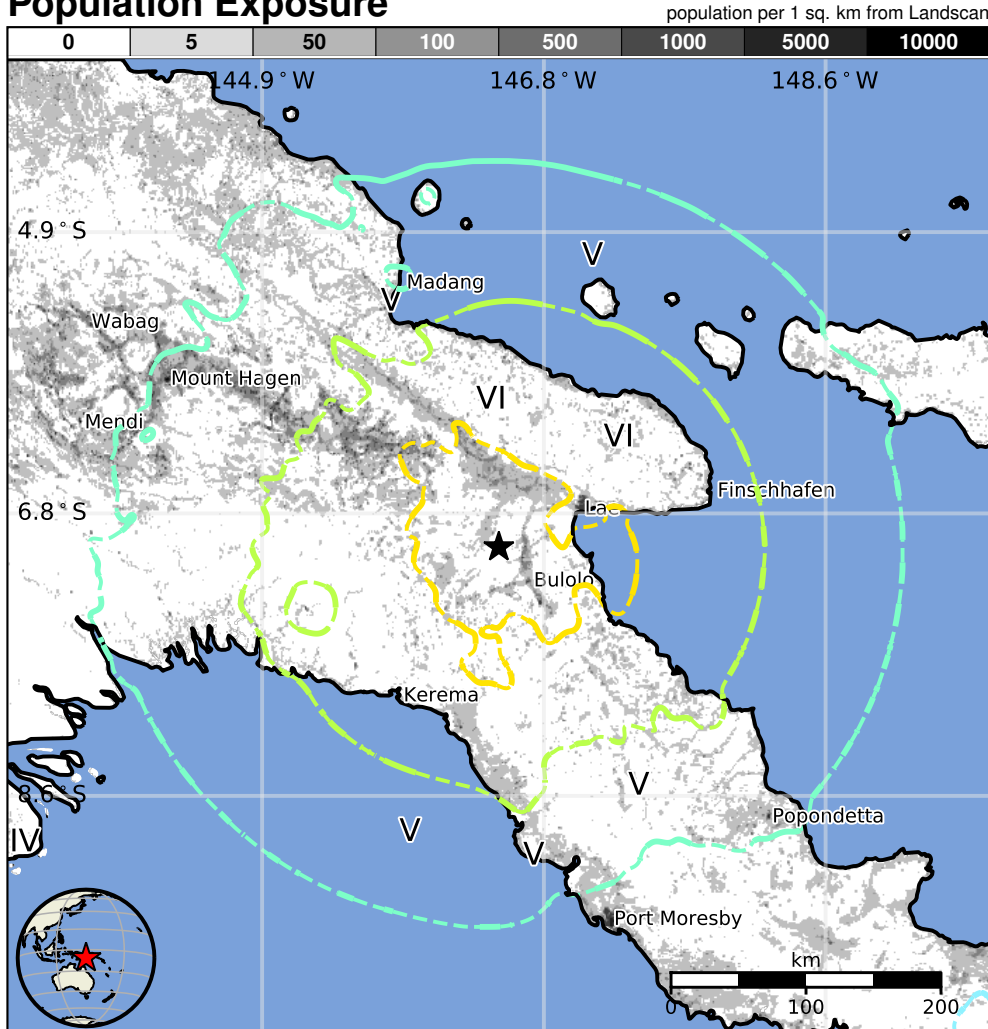


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	—*	1k*	1,990k*	1,568k	1,065k	448k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

### Population Exposure



### Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unreinforced brick masonry and informal (metal, timber, GI etc.) construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1987-02-08	170	7.3	VII(47k)	0
2005-06-04	82	6.1	VII(27k)	1
1993-10-16	123	6.3	VII(75k)	3

Recent earthquakes in this area have caused secondary hazards such as tsunamis, landslides and liquefaction that might have contributed to losses.

### Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Bulolo	16k
VII	Wau	15k
VII	Kainantu	9k
VI	Lae	76k
VI	Kerema	6k
VI	Finschhafen	1k
V	Popondetta	28k
V	Mount Hagen	34k
IV	Mendi	26k
IV	Madang	27k
IV	Port Moresby	284k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us70003hqb#pager>

Event ID: us70003hqb